IN THE CLAIMS:

- 1-27. (Previously Cancelled)
- 28. (Currently Amended) A method of modifying a polymeric material comprising the steps of (1) an activation treatment and (2) a hydrophilic polymer-treatment. which comprises:
 - (a) subjecting the polymeric material to an activation step; and
- (b) treating the activated polymeric material produced in said activation step with a hydrophilic polymer in the presence of a catalyst or initiator under conditions effective to produce said modified polymer.
- 29. (Currently Amended) The method of modifying a polymeric material according to claim 28 further comprising the step (3) of monomer grafting after step (b).
- 30. (Currently Amended) The method of modifying a polymeric material according to claim 28, further comprising the step of a solvent-treatment prior to the activation step (1).
- 31. (Currently Amended) The method of modifying a polymeric material according to Claim 2830, further comprising the step (3) of monomer grafting. of a solvent-treatment prior to the activation step and a step of monomer grafting after step (b).
- 32. (Currently Amended) The method according to claim 28, wherein said polymeric material is a homopolymer or copolymer of one or more compounds selected from the group consisting of: olefins, vinyl compounds except olefins, vinylidene compounds and other compounds having earbon earbon double bonds; polyesters, polyamides, polyimides, polyurethanes, polybenzoates, poly(benzoxazole)s, poly(benzthiazole)s, poly-(p-phenylene benzbisoxazole)s, poly-(p-phenylene benzbisoxazole)s, poly-(p-phenylene benzbis-thiazole)s, poly(alkyl-p-hydroxybenzoate)s, poly(benzimidazole)s, carbon fiber materials, polyphenols, cellulose acetate, regenerated cellulose, vinylon, polychlel polychlal, casein, wool, silk and hemp, (or ramie, and jute).



- 33. (Currently Amended) The method according to claim 28, wherein said polymeric material is in the form of any one of fibers, woven fabrics, knitted webs, non-woven fabrics, plates, rods, films, sheets, porous films, sheets, members or products parts of molded materials in a given shape or composite materials with other materials.
- 34. (Original) The method according to claim 28, wherein said activation-treatment is at least one of the treatments selected from the group consisting of an ozone treatment, a plasma treatment, a UV irradiation treatment and a high voltage electric discharge treatment.
- 35. (Currently Amended) The method according to claim 28, wherein said hydrophilic polymer is at least one member selected from the group consisting of polyvinyl alcohol, carboxymethylcellulose, poly(hydroxy-ethyl_methacrylate), poly-α-hydroxy vinylalcohol, polyacrylic acid, polyvinyl pyrrolidone, polyalkylene glycols, starche, silk fibroin, sericin, agar, gelatin, egg white and sodium arginate.
- 36. (Original) The method according to claim 29, wherein said monomer is a compound having a carbon-carbon double bond.
- 37. (Original) The method according to claim 31, wherein said monomer is a compound having a carbon-carbon double bond.
- 38. (Currently Amended) The method according to claim 36, wherein said monomer is at least one kind of monomer or a mixture of monomers selected from the following monomers; acrylic acid, methacrylic acid, vinyl acetate, 2-butene acid, ethylene sulfonic acid, hydroxyalkyl acrylate, hydroxyalkyl methacrylate, acryl amide, vinyl pyridine, vinyl pyrrolidone, vinyl carbazole, maleic anhydride and or pyromellitic dianhydride.
- 39. (Currently Amended) The method according to claim 37, wherein said monomer is at least one kind of monomer or a mixture of monomers selected from the following monomers; acrylic



acid, methacrylic acid, vinyl acetate, 2-butene acid, ethylene sulfonic acid, hydroxyalkyl acrylate, hydroxyalkyl methacrylate, acryl amide, vinyl pyridine, vinyl pyrrolidone, vinyl carbazole, maleic anhydride and or pyromellitic dianhydride.

- 40. (Currently Cancelled)
- 41. (Original) The method according to claim 29, wherein the step of monomer grafting is carried out in the presence of catalysts or initiators.
- 42. (Original) The method according to claim 29, wherein said step of monomer grafting is carried out by any one of or both of the following two methods: (1) heating in the presence of catalysts or initiators and (2) UV irradiation in the presence or absence of catalysts, initiators or photo-sensitizers.
- 43. (Original) The method according to claim 31, wherein said step of monomer grafting is carried out by any one of or both of the following two methods: (1) heating in the presence of catalysts or initiators and (2) UV irradiation in the presence or absence of catalysts, initiators or photo-sensitizers.
- 44. (Currently Amended) The method according to claim 40, wherein said initiators are at least one of compound selected from the following compounds: peroxides, cerium ammonium nitrate (IV) and or persulfates.
- 45. (Currently Amended) The method according to claim (41), wherein said initiators are at least one of compound selected from the following compounds: peroxides, cerium ammonium nitrate (IV) and or persulfates.
- 46. (Currently Amended) An improved pPolymeric material obtained by the improvement modification method according to claim 128.

- 47. (Currently Amended) Battery separators containing <u>modified</u> improved polymeric materials obtained by the <u>modification</u> improvement method according to claim <u>28</u>1.
- 48. (Currently Amended) Wiping/cleansing materials containing modified improved polymeric materials obtained by the modification improvement method according to claim 281.
- 49. (Currently Amended) Filter mediums containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 50. (Currently Amended) Water absorption materials containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 51. (Currently Amended) Water retention materials containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 52. (Currently Amended) Materials for microorganism culture media containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 53. (Currently Amended) Composite materials containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 54. (Currently Amended) Members of wWriting materials containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 55. (Currently Amended) Polymeric materials improved in adhesion property obtained by the improvement modified method according to claim 28 1.
- 56. (Currently Amended) Medical/sanitary/cosmetic supplies containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.
- 57. (Currently Amended) Synthetic papers made of improved modified polymeric materials obtained by the improvement method according to claim 28 1.

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58. (Currently Amended) Brackets for straightening of irregular teeth containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.

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59. (Currently Amended) Textile products for clothing or inner battings of beds/bed clothing containing improved modified polymeric materials obtained by the improvement method according to claim 28 1.